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2825

Diag. Cht. No. 1292

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Acc. No.

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

Superintendent.

State: *Maine*

DESCRIPTIVE REPORT.

(Year of 1910)

*Hyd.* Sheet No. *2825*

LOCALITY:

*Eggemogin Reach &  
upper E. Penobscot Bay*

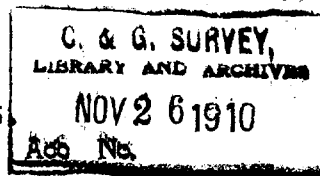
1910

CHIEF OF PARTY:

*M. H. Beck*

# 2825

Department of Commerce and Labor



DESCRIPTIVE REPORT TO ACCOMPANY HYD. SHEET NO. 2825.


WORK OF THE WIRE DRAG PARTY, Year of 1910.


\*\*\*\*\*

Work was done in Eggemoggin Reach and upper East Penobscot Bay during the year of 1910, in order to complete the work of preceeding years. Hence it was not done in contiguous territory, but in detached areas all over this vicinity. Most of the work was done with drags of 1200 ft., or less, in width; no work being attempted with a greater length than 2000 ft,


THE FOLLOWING SHOALS WERE FOUND: bearings being in degrees true, and distances in meters, unless otherwise stated.


IN THE REACH, below the Narrows at Stave Island, the following:


1. A boulder off White Island; least depth 14 ft. Bearings from -  
     "Eluffe                       233°                      1150 M.  
     E. Pt. White Id.                      32°                      350 M.


Between White and Conary's Ids., 4 shoal spots were found as follows: bearings and distances from Conary Id.  on highest pt. of Conary's Id.

2.            29 ft. 1st. depth.                      138°                      1750 M.
3.            28 " " "                      138°                      1130 M.
4.            20 " " "                      134°                      1050 M.
5.            27 " " "                      129°                      840 M.



6. A 20 Ft. spot not far from the charted 4 3/4 fathom spot to the E. of Conary's Id. Bearings from:  
     Conary Id.                       96°                      840 M.  
     W. Pt. White Id.                      3°                      1500 M.



7. A 32 ft. shoal across the Reach from this No. 6. It is about 70 M. long, with less than 6 fathoms over it. Bearings from -  
     Conary Id.                       103°                      1570 M.

8. A 25 ft. spot off Babson's Id. Bearings from -  
     Conary Id.                       77°                      1480 M.

9. A 31 ft. spot lies 200 M. directly toward Conary Id.  from No. 8.

## Department of Commerce and Labor

10. A shoal with least depth of 12 ft. lies off Little Babsons Id. It is practically a continuation of the ledge near there, and runs out about 200 M. to the Westward of the ledge, and is about 100 M. wide. Bearings to the 12 ft. spot -
- |   |      |         |
|---|------|---------|
| Conary Id.         | 47°  | 970 M.  |
| Little Torrey Id.  | 144° | 1580 M. |
- This is nearly at the Westernmost Point of the shoal. A depth of 1 ft. was found on the ledge mentioned.

11. A shoal with least depth of 20 ft. was found between Conarys and Torrey Ids. It is about 70 M. long in an E. & W. (mag.) direction, with less than 4 fathoms over it. Bearings from -
- |   |      |         |
|---|------|---------|
| Conary Id.     | 328° | 1160 M. |
| L. Torrey Id.  | 203° | 1050 M. |

12. A 33 ft. spot lies North (true) of No. 11, at a distance of about 200 M.

13. The shoal marked by Red Buoy, SO, near Torrey's Castle Beacon, was found to be more extensive than charted. The 3 following soundings were taken to locate the 6 fathom curve. Inside of this, it shoals rapidly to 12 ft. Bearings from the above Beacon -
- |            |      |        |
|------------|------|--------|
| (a) 32 ft. | 157° | 460 M. |
| (b) 37 "   | 158° | 520 M. |
| (c) 34 "   | 172° | 360 M. |

14. A 32 ft. spot was found West of this shoal a short distance. Bearings from the Beacon -
- |  |      |        |
|--|------|--------|
|  | 208° | 360 M. |
|--|------|--------|

15. Across the Reach from the Beacon a rock was found with the following depths on it. Bearings from the Beacon -
- |            |      |        |
|------------|------|--------|
| (a) 17 ft. | 238° | 840 M. |
| (b) 8 "    | 237° | 900 M. |
| (c) 2 "    | 241° | 930 M. |

16. Another rock was found a little farther up the Reach, with the following depths.

Bearings from the Beacon -

|           |      |         |
|-----------|------|---------|
| (a) 7 ft. | 276° | 1240 M. |
| (b) 15 "  | 274° | 1210 M. |

These two rocks are within the charted 3 fathom limit off the Southern shore.

## Department of Commerce and Labor

Four

17. Four soundings were taken to locate the 6 fathom curve between the Beacon and

Red Buoy, S6, Bearings from the Beacon -

|            |      |         |
|------------|------|---------|
| (a) 34 ft. | 314° | 920 M.  |
| (b) 35 "   | 319° | 1750 M. |
| (c) 36 "   | 318° | 2160 M. |
| (d) 37 "   | 313° | 1970 M. |

Bearings from Bridges Point -

|            |      |         |
|------------|------|---------|
| (a) 34 ft. | 170° | 1950 M. |
| (b) 35 "   | 187° | 1250 M. |
| (c) 36 "   | 206° | 1060 M. |
| (d) 37 "   | 200° | 1280 M. |


These soundings were taken along the edge of a mud flat making out from the Northern shore.

18. A shoal was found extending out from the shore about half way to the charted

18 ft, spot lying in Lat. 44°16.2', Long. 68°38.6'. The following soundings,

with bearings from Bridges Pt., were taken -

|            |      |         |
|------------|------|---------|
| (a) 21 Ft. | 248° | 2220 M. |
| (b) 17 "   | 248° | 2310 M. |
| (c) 9 "    | 249° | 2420 M. |
| (d) 7 "    | 248° | 2410 M. |


Bearings from "F. Johnson's Ho. Chy." 

|            |      |         |
|------------|------|---------|
| (a) 21 ft. | 348° | 1100 M. |
| (b) 17 "   | 343° | 1080 M. |
| (c) 9 "    | 338° | 1120 M. |
| (d) 7 "    | 337° | 1080 M. |

19. A shoal with a least depth of 18 ft. was found across the Reach from Tinkers

Ledges. It shoals up regularly from 6 fathoms for 100 M. to 18 ft., and is about

70 M. wide. The 18 ft. spot is on the inner end. <sup>to the 18 ft. spot</sup> Bearings from -

|  |      |         |
|--|------|---------|
| The Highest Point of Stave Id.   | 84°  | 1920 M. |
| Billings  | 166° | 2900 M. |

20. A shoal with a least depth of 13 ft. was found off Bayards Pt. It is about 250

M. long in a N. & S. (true) direction, and is about 100 M. wide. The 13 ft. spot

is at the Northern end. It ~~drops off~~ is shoal to the shore, from this, but on

~~the other side~~ it drops off to 36 ft. at the Southern end. Bearings to the 13

ft. spot from -

|  |      |         |
|--|------|---------|
| Stave Id.  | 358° | 820 M.  |
| Billings  | 209° | 2540 M. |

22 ft. was found at the Red Buoy, S12, N. E. of here.

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21. A rock with a least depth of 3 1/2 ft. was found in the entrance to Little Deer Isle Harbor. It is on the Eastern end of a ridge of boulders with from <sup>9</sup> ~~17~~ to <sup>10</sup> ~~18~~ ft. on it, that extends from the inner end edge of "Little Sally" ledge to this

rock. Bearings from -

Stave Id.


312°

390 M.

Little Deer Isle 


75°

1610 M.

22. A 25 ft. boulder with 32 ft. around it was found off Stave Id. Bearing from -  
Little Deer Isle  84° 2200 M.

23. A narrow ridge with 36 ft. 1st. depth was found to the N'ard of this. It runs about N.E. & S. W., and is about 30 M. long. It is surrounded with from 8 to 10

fathoms. Bearing to the N. end, from -

Little Deer Isle 

75°

1960 M.

IN THE WESTERN ENTRANCE TO THE REACH, the following shoals were found:

24. A shoal with a least depth of 20 ft. was found across from Howard Ledges. It is

about 80 M. in diameter, drops off ~~gradually to~~ abruptly to 7 fthms. inshore,

and gradually to 6 fthms., off shore. The 6 fathom curve outside of it, lies

about 60 M. from the least depth. Bearings to the 20 ft. spot, from -

Billings Mountain 

147°

1300 M.

Pumpkin Id. Lt. Ho.

91°

3250 M.

25. A 36 ft. spot was found almost in mid-channel, to the N. of Howard Ledges Buoy,

S9, . Bearings from -

Pumpkin Id. Lt. Ho.

74°

1540 M.

~~26. A large pinnacle with a least depth of 26 ft. was found off Winches Mtn. It is~~

~~about 100 M. in diameter, an E. & W. (mag.) direction, and about 50 M. wide.~~

~~Bearing from Pumpkin Id. Lt. Ho. 147° 2080 M.~~

26.


27. A shoal with a least depth of 26 ft. was found off the Eastern entrance to Bucks Harbor. It is about 100 M. in diameter with 6 fathoms or less on it and deep water

all around. Bearings from -

Pumpkin Id. Lt. Ho.

14°

2080 M.

Billings Mtn. 

296°

2250 M.

27. A shoal with a least depth of 30 ft. was found to the S.W.'ard of this. It is about 120 M. long and 50 M. wide, with 5 to 6 fathoms on most of it.

## Department of Commerce and Labor


27(cont.). Bearing from Pumpkin Id. Lt. Ho. 8° 1480 M.

Four spots with least depths of 27 ft., 32 ft., 36 ft., and 28 ft., were found to the Southward of Thrumbeap Ledge as follows. Bearings and distances from

|     | Pumpkin Id. Lt. Ho. |      |         |
|-----|---------------------|------|---------|
| 28. | 27 ft.              | 294° | 1310 M. |
| 29. | 32 "                | 275° | 1460 M. |
| 30. | 36 "                | 260° | 1160 M. |
| 31. | 28 "                | 246° | 1260 M. |

32. A shoal with a least depth of 15 ft. was <sup>also</sup> found in this vicinity. To the 6 fathom


it is about 220 M. long and 50 M. wide. Bearings from -

|   |      |         |
|---|------|---------|
| Pumpkin Id. Lt. Ho.   | 260° | 1510 M. |
| Spectacle Id.  | 93°  | 1640 M. |


33 ft. was found at the Red Buoy, S14, on Spectacle Id. Ledge.

IN UPPER EAST PENOBSCOT BAY; the following shoals were found:

## OFF CAPE ROSIER:


33. A 19 ft spot, 110 M. off ~~an~~ shore, about 350 M. E. of the W. point of the Cape.  
Bearing from Redman Hill  235° 1000 M.

~~A~~ A large shoal with a least depth of 17 ft. was found lying about 200 M. offshore and to the Eastward of 33. It consists of two parts:



34. One has a 17 ft ridge about 80 M. long, running almost N. & S. (mag.). Bearings from -  
Redman Hill  180° 780 M.  
S.W. Pt. Cape Rosier 116° 1250 M.

26 ft. was found 80 M. N.W. (mag.), of the N. end of this ridge, and 36 ft. N.W.xW. (mag.) of the S. end.

35. The other part has a least depth of 24 ft. at its Northern end, and runs S.E.xS.

from this for about 100 M., to a depth of 35 ft. Bearings to the 24 ft. spot, from -  
Redman Hill  172° 880 M.  
S.W. Pt. Cape Rosier 117° 1450 M.

The whole shoal is about 400 M. long in a N.W. & S.E. (mag.), direction, and is ~~is~~ about 150 M. wide, with less than 6 fathoms over most of it.

36. A large shoal with a least depth of 13 ft. was found still further toward the East. It is about 150 M. long in a N.E.xE. & S.W.xW. (mag.), direction, and is about 100 M. wide, ~~in~~ with 13 to 18 ft. over most of it. Bearings From -  
Redman Hill  140° 1180 M.  
Spectacle Id.  266° 1650 M.

## Department of Commerce and Labor

37. Near Two Bush Id. two shoal spots were found as follows. Bearings from center of Two Bush Id.

|     |        |     |        |
|-----|--------|-----|--------|
| (a) | 11 ft. | 14° | 100 M. |
| (b) | 34 "   | 29° | 170 M. |

38. South of Pickering Id. a shoal with a least depth of 32 ft. was found. It is about 130 M. long in a ~~N.W. & S.E. (mag.)~~ <sup>N.W. & S.E. (mag.)</sup> direction, and about 50 M. wide, with less than

6 fathoms over most of it. Bearings from -

|                   |      |         |
|-------------------|------|---------|
| Eagle Id. Lt. Ho. | 4°   | 4650 M. |
| S. tip Hog Id.    | 132° | 3350 M. |

39. Just South of Hog Id. a shoal with a least depth of 24 ft. was found. It is about 30 M. long in a N. & S. direction with less than 5 fathoms on it.

|                              |      |        |
|------------------------------|------|--------|
| Bearings from S. tip Hog Id. | 217° | 130 M. |
|------------------------------|------|--------|

40. A large shoal with a least depth of 35 ft. was found about half way from Western Id. to Beech Id. It is about 150 M. in a N. & S. (mag.) direction,


and is about 100 M. wide. Bearings from -

|   |      |         |
|---|------|---------|
| Spruce Head  | 357° | 4500 M. |
| S. tip Hog Id.  | 268° | 2550 M. |

Three Shoals were found to the Westward of Western Id., as follows.

41. A least depth of 28 ft. was found on a shoal 180 meters in a north and south direction: It is about 130 meters wide and has less than 6 fathoms over most of

it. Bearings from-

|   |      |         |
|---|------|---------|
| Redman Hill  | 213° | 2950 M. |
| S. tip Hog Id.  | 274° | 3300 M. |


42. A least depth of 23 ft. was found on a shoal 130 M. in a NW & SE. direction

with less than 6 fms. over it. Bearings from-

|   |      |         |
|---|------|---------|
| Redman Hill  | 207° | 3100 M. |
| S. tip Hog Id.  | 270° | 3000 M. |

43. A least depth of 23 ft. was found on a shoal 170 M. long in an E. & W. direction:

it is 70 M. wide, has less than 6 fms. Bearings -

|   |      |         |
|---|------|---------|
| Redman Hill  | 206° | 2620 M. |
| S. tip Hog Id.  | 299° | 2950 M. |

44. Two points on the three fm. curve N. of Western Id. were located, these are just outside of two rocks to be mentioned later. Bearings from -

## Department of Commerce and Labor

44. (cont.)

Pond Id. (C)

|                         |      |              |
|-------------------------|------|--------------|
| (a)                     | 273° | 0180 1080 M. |
| (b)                     | 274° | 990 M.       |
| N.E. tip of Western Id. |      |              |
| (a)                     | 312° | 230 M.       |
| (b)                     | 335° | 190 M.       |

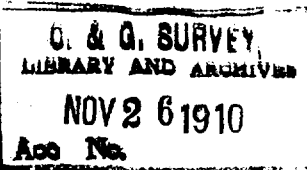
## BARE ROCKS AND LEDGES FOUND.

45. The black ledges charted to the Southward of Pond Id. with depths of 5 and 9 ft. respectively were found to be dry ledges from 4 to 6 ft. above high water mark. They appear on the sheet, their sizes and shapes having been determined by sextant cuts. The Westernmost ledge is 70 M. by 10 M. and stands 4' above high water mark at the center. The central ledge is about 80 M. by 70 M., has two points above high water mark the Southern one standing 6' above H.W. mark and the Northern one 5'. The most Easterly ledge is about 100 M. by 50 M. and stands 4' above H.W. mark at its Western end. A small rock 2 1/2 ft. above M.L.W. lies just to the E. of this.
46. Greene Ledge, to the W. of Western Id. was found to extend N.E., (Mag.) with from the charted ledge for about 150 M. At its Northern end is a boulder standing 8' above M.L.W., between this and the main ledge there is from 4 to 6 ft. of water at M.L.W.
47. Between Western Id. and Greene Ledge is another ledge about 35 M. by 20 M. a section of it about 40' by 20' is above H.W. mark. Another small rock, bare at H.W. lies 50 M. ENE, (Mag.) of this one.
48. Two rocks, one 1/2 ft. above M.L.W., the other 2 1/2 ft. above M.L.W. were located to the Northward of Western Id. and are noted on the sheet. They lie about 50 M. SW. and 30 M. SSE of the three fm. spots noted under (44).



Department of Commerce and Navigation

2825



## PLANE TABLE WORK.

Plane table work was done to locate numerous signals throughout the Reach and up the Bay, and 12 new ones being located and the positions of as many more old ones being checked. Several triangulation stations were also recovered.

A sextant cut was also used to locate the shore line on Western Id. just W. of the signal West<sub>2</sub>. This shows that a point makes off to the Westward, this change noted on the sheet.

MAINE.

Eggemoggin Reach, and  
East Penobscot Bay.

2825

N. H. Heck, 1910.

PLANE TABLE POSITIONS.

COAST AND  
GEODETIC SURVEY

NOV 25 1910

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LIBRARY AND ARCHIVES

NOV 25 1910

Acc. No.

| Object, and description.                              | Lat.   | D.M. | Long.  | D.P. | Remarks.   |
|---|--------|------|--------|------|--|
| Barn, Hog Id.-- S.E. Gable<br>(NEW)                   | 44°17' | 91   | 68°47' | 648  | Gable nearest the shed:<br>the largest barn - to<br>the westward of house. |
| Pole, Hog Id.<br>("POLE")                             | 44°17' | 46   | 68°47' | 561  | Bottom.  |
| Wharf House, Condon's Pt.<br>("WHARF")                | 44°18' |      | 68°47' |      | Peak of Southern Gable.  |
| Witmore's Cottage, Eggemoggin.<br>("WIT")             | 44°18' | 954  | 68°44' | 32   | Peak of Northern Gable.  |
| Derrick, Buck's Harbor.<br>("RICK")                   | 44°20' | 1302 | 68°43' | 1293 | Top of the most prominent<br>derrick.                                      |
| Eastermost Cottage, Noram-<br>bega. ("NORA")          | 44°19' | 330  | 68°43' | 366  | Peak, Southern Gable.  |
| Cupola, white barn near<br>Herrick's Ldg. ("CUP")     | 44°18' | 1739 | 68°42' | 525  | Ball at top of cupola.   |
| Cottage, Stave Id.<br>("COT")                         | 44°17' | 532  | 68°41' | 143  | Peak, Northern Gable.  |
| Boulder, Cape Carter.<br>("WHITE")                    | 44°16' | 1162 | 68°37' | 212  | Large White boulder near<br>water line. The middle.                        |
| Wharf House, above Gray's<br>Cove; Deer Isle. ("END") | 44°14' | 999  | 68°36' | 648  | Peak, Outermost Gable.   |

Jan. 12, 1911.

HYDROGRAPHIC SHEET 2825.

*Dredge*  
*CRB*  
*2/10/11*

Eggemoggin Reach and Part of East Penobscot Bay,  
Maine, by Asst. N. H. Heck in 1906, 1909 and 1910.

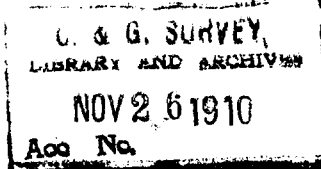
|   | TIDES.                   |                             |                         |                         |                              |
|---|--------------------------|-----------------------------|-------------------------|-------------------------|------------------------------|
|   | 1906<br>Center<br>Harbor | 1906<br>Northwest<br>Harbor | 1909<br>Vinal-<br>haven | 1910<br>Stoning-<br>ton | 1910<br>South<br>Brooksville |
| Mean low water, or<br>plane of reference on staff | ft.<br>3.2               | ft.<br>1.7                  | ft.<br>2.5              | ft.<br>2.0              | ft.<br>1.1                   |
| Lowest tide observed " " " "                      | 0.8                      | -0.3                        | -0.1                    | -0.3                    | -2.3                         |
| Highest " " " "                                   | 14.9                     | 13.7                        | 14.1                    | 14.2                    | 13.3                         |
| Mean range of tide                                | 10.1                     | 10.1                        | 9.4                     | 9.7                     | 10.5                         |

Coast and Geodetic Survey

FEB 10 1911

TIDAL DIVISION.

2825



HYDROGRAPHIC SHEET NUMBER 2825.

WORK OF THE WIRE DRAG PARTY DURING THE SEASON OF 1910.

\*\*\*\*\*

N. H. Heck, Assistant, Chief of Party.  
Geo Olsen, Watch Officer, Operating Drags No. 1 and 2.  
Jas. A. Smith, Aid, Operating Drag No. 2.

\*\*\*\*\*

Officers besides those mentioned above:

L. M. Fisher, Aid.  
D. M. Kyle, Aid.  
P. S. Donnell, Aid.  
E. E. Reese, Aid.

\*\*\*\*\*

TIDE GAUGE AT BUCKS HARBOR, MAINE, and at  
Stonington, Maine.

\*\*\*\*\*

BUCKS HARBOR.

Staff  
Reading

Above  
M. L. W.

Highest Tide Observed-----  
Lowest Tide Observed-----

\*\*\*\*\*

For Stonington T. G. data, see Hyd. Sheet No. 2911.

# STATISTICS

2825

## HYDROGRAPHIC SHEET

Eggemoggin Reach and East Penobscot Bay, season of 1910

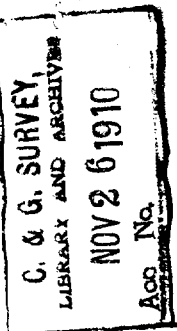
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| 1910<br>Date | letter | vol | Angles | number | Soundings<br>angles | Miles | Drag<br>length | remarks |
|--------------|--------|-----|--------|--------|---------------------|-------|----------------|---------|
|              |        |     |        |        | DRAG NO. 1          |       |                |         |
| Oct. 19      | a      | 1   | 65     | 5      | 10                  | 2.0   | 1400           |         |
| 27           | b      | 1   | 126    | 4      | 8                   | 2.75  | 1200           |         |
| 28           | c      | 1   | 24     | 0      | 0                   | 0.50  | 1200           |         |
| Totals       |        |     | 215    | 9      | 18                  | 5.25  |                |         |
|              |        |     |        |        | DRAG NO. 2          |       |                |         |
| Oct. 19      | a      | 1   | 215    | 5      | 8                   | 3.25  | 1200           |         |
| 27           | b      | 1   | 50     | 5      | 10                  | 1.0   | 1200           |         |
| 28           | c      | 1   | 184    | 6      | 12                  | 3.5   | 1200           |         |
| Nov. 3       | d      | 1   | 240    | 25     | 50                  | 5.5   | 2000           |         |
| 4            | e      | 1   | 156    | 1      | 2                   | 2.75  | 1400           |         |
| 5            | f      | 2   | 240    | 6      | 12                  | 6.0   | 1200           |         |
| 7            | g      | 2   | 354    | 0      | 0                   | 7.5   | 1400           |         |
| 9            | h      | 2   | 90     | 7      | 14                  | 1.25  | 800            |         |
| 10           | i      | 2   | 294    | 5      | 10                  | 5.75  | 1400           |         |
| 11           | j      | 2   | 408    | 7      | 14                  | 6.25  | 800            |         |
| 12           | k      | 3   | 264    | 19     | 38                  | 3.5   | 1400           |         |
| 14           | l      | 3   | 324    | 6      | 12                  | 4.75  | 1000           |         |
| 15           | m      | 3   | 276    | 12     | 24                  | 4.0   | 12000          |         |
| 16           | n      | 3   | 72     | 2      | 4                   | 1.25  | 1200           |         |
| 18           | o      | 3   | 288    | 9      | 18                  | 4.0   | 1200           |         |
| 19           | p      | 3   | 76     | 2      | 4                   | 1.25  | 1200           |         |
|              | q      | 4   |        |        |                     |       |                |         |
| Totals       |        | 4   | 3526   | 121    | 242                 | 61.0  |                |         |

Grand totals  
Angles 4100  
Miles 66  
Soundings 130  
Sq. miles 3.0



Department of Commerce and Labor

1.  
Department of Commerce and Labor


DESCRIPTIVE REPORT TO ACCOMPANY HYD. SHEET NO. 2825.


WORK OF THE WIRE DRAG PARTY, Year of 1910.  
\*\*\*\*\*

Work was done in Eggemoggin Reach and upper East Penobscot Bay during the year of 1910, in order to complete the work of preceeding years. Hence it was not done in contiguous territory, but in detached areas all over this vicinity. Most of the work was done with drags of 1200 ft., or less, in width; no work being attempted with a greater length than 2000 ft.

THE FOLLOWING SHOALS WERE FOUND; bearings being in degrees true, and distances in meters, unless otherwise stated.

IN THE REACH, below the Narrows at Stave Island, the following:

1. A boulder off White Island; least depth 14 ft. Bearings from -  
Huff  233° 1150 M.  
E. Pt. White Id. 32° 350 M.

Between White and Conary's Ids., 4 shoal spots were found as follows: bearings and distances from Conary Id. , on highest pt. of Conary's Id.

- |    |                    |      |         |
|----|--------------------|------|---------|
| 2. | 29 ft. 1st. depth. | 138° | 1750 M. |
| 3. | 28 " " "           | 138° | 1130 M. |
| 4. | 20 " " "           | 134° | 1050 M. |
| 5. | 27 " " "           | 129° | 840 M.  |

6. A 20 Ft. spot not far from the charted 4 3/4 fathom spot to the E. of Conary's

Id. Bearings from:  
Conary Id.  96° 840 M.  
W. Pt. White Id. 3° 1500 M.



7. A 32 ft. shoal across the Reach from this No. 6. It is about 70 M. long, with

less than 6 fathoms over it. Bearings from -  
Conary Id.  103° 1570 M.

8. A 25 ft. spot off Babson's Id. Bearings from -  
Conary Id.  77° 1480 M.

9. A 51 ft. spot lies 200 M. directly toward Conary Id.  from No. 8.

## Department of Commerce and Labor

10. A shoal with least depth of 12 ft. lies off Little Babsons Id. It is practically a continuation of the ledge near there, and runs out about 200 M. to the Westward of the ledge, and is about 100 M. wide. Bearings to the 12 ft. spot -
- |   |      |         |
|---|------|---------|
| Canary Id.         | 47°  | 970 M.  |
| Little Torrey Id.  | 144° | 1580 M. |
- This is nearly at the Westernmost Point of the shoal. A depth of 1 ft. was found on the ledge mentioned.

11. A shoal with least depth of 20 ft. was found between Canary and Torrey Ids. It is about 70 M. long in an E. & W. (mag.) direction, with less than 4 fathoms over

- it. Bearings from -
- |   |      |         |
|---|------|---------|
| Canary Id.     | 328° | 1160 M. |
| L. Torrey Id.  | 203° | 1050 M. |

12. A 33 ft. spot lies North (true) of No. 11, at a distance of about 200 M.

13. The shoal marked by Red Buoy, 80, near Torrey's Castle Beacon, was found to be more extensive than charted. The 3 following soundings were taken to locate the 6 fathom curve. Inside of this, it shoals rapidly to 12 ft. Bearings from the above Beacon -

|     |        |      |        |
|-----|--------|------|--------|
| (a) | 32 ft. | 157° | 460 M. |
| (b) | 37 "   | 158° | 520 M. |
| (c) | 34 "   | 172° | 360 M. |

14. A 32 ft. spot was found West of this shoal a short distance. Bearings from the Beacon -
- |  |      |        |
|--|------|--------|
|  | 208° | 360 M. |
|--|------|--------|

15. Across the Reach from the Beacon a rock was found with the following depths on it. Bearings from the Beacon -

|     |        |      |        |
|-----|--------|------|--------|
| (a) | 17 ft. | 238° | 840 M. |
| (b) | 8 "    | 237° | 900 M. |
| (c) | 2 "    | 241° | 930 M. |

16. Another rock was found a little farther up the Reach, with the following depths.

Bearings from the Beacon -

|     |       |      |         |
|-----|-------|------|---------|
| (a) | 7 ft. | 276° | 1240 M. |
| (b) | 15 "  | 274° | 1210 M. |

These two rocks are within the charted 5 fathom limit off the Southern shore.



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17. Four soundings were taken to locate the 6 fathom curve between the Beacon and

Red Buoy, S6, Bearings from the Beacon -

|            |      |         |
|------------|------|---------|
| (a) 34 ft. | 314° | 920 M.  |
| (b) 35 "   | 319° | 1750 M. |
| (c) 36 "   | 318° | 2160 M. |
| (d) 37 "   | 313° | 1970 M. |

Bearings from Bridges Point -

|            |      |         |
|------------|------|---------|
| (a) 34 ft. | 170° | 1950 M. |
| (b) 35 "   | 187° | 1250 M. |
| (c) 36 "   | 206° | 1060 M. |
| (d) 37 "   | 200° | 1280 M. |

These soundings were taken along the edge of a mud flat making out from the Northern shore.

18. A shoal was found extending out from the shore about half way to the charted

18 ft. spot lying in Lat.  $44^{\circ}16.2'$ , Long.  $68^{\circ}38.6'$ . The following soundings,

with bearings from Bridges Pt., were taken -

|            |      |         |
|------------|------|---------|
| (a) 21 ft. | 248° | 2220 M. |
| (b) 17 "   | 248° | 2310 M. |
| (c) 9 "    | 249° | 2420 M. |
| (d) 7 "    | 248° | 2410 M. |


Bearings from "F. Johnson's No. Chy." 

|            |      |         |
|------------|------|---------|
| (a) 21 ft. | 348° | 1100 M. |
| (b) 17 "   | 343° | 1080 M. |
| (c) 9 "    | 338° | 1120 M. |
| (d) 7 "    | 337° | 1080 M. |

19. A shoal with a least depth of 18 ft. was found across the Reach from Tinkers

Ledges. It shoals up regularly from 6 fathoms for 100 M. to 18 ft., and is about

70 M. wide. The 18 ft. spot is on the inner end. <sup>to the 18 ft. spot</sup> Bearings from -

|  |      |         |
|--|------|---------|
| The Highest Point of Stave Id.   | 84°  | 1920 M. |
| Billings  | 166° | 2900 M. |

20. A shoal with a least depth of 13 ft. was found off Bayards Pt. It is about 250

M. long in a N. & S. (true) direction, and is about 100 M. wide. The 13 ft. spot

is at the Northern end. It ~~drops off~~ is shoal to the shore, from this, but on

~~the other side~~ it drops off to 36 ft. at the Southern end. Bearings to the 13

ft. spot from -

|  |      |         |
|--|------|---------|
| Stave Id.  | 338° | 320 M.  |
| Billings  | 209° | 2540 M. |

22 ft. was found at the Red Buoy, S12, N. E. of here.

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21. A rock with a least depth of  $3\frac{1}{2}$  ft. was found in the entrance to Little Deer Isle Harbor. It is on the Eastern end of a ridge of boulders with from <sup>9</sup>17 to <sup>10</sup>18 ft. on it, that extends from the inner end edge of "Little Sally" ledge to this

rock. Bearings from -

Stave Id.


312°

390 M.

Little Deer Isle 

75°

1610 M.

22. A 25 ft. boulder with 32 ft. around it was found off Stave Id. Bearing from -  
Little Deer Isle  84° 2200 M.

23. A narrow ridge with 36 ft. 1st. depth was found to the N'ard of this. It runs about N.E. & S. W., and is about 30 M. long. It is surrounded with from 8 to 10

fathoms. Bearing to the N. end, from -

Little Deer Isle 

75°

1960 M.

IN THE WESTERN ENTRANCE TO THE REACH, the following shoals were found:

24. A shoal with a least depth of 20 ft. was found across from Howard Ledges. It is about 80 M. in diameter, drops off gradually to abruptly to 7 fms. inshore, and gradually to 6 fms., off shore. The 6 fathom curve outside of it, lies

about 60 M. from the least depth. Bearings to the 20 ft. spot, from -

Billings Mountain 

147°

1300 M.

Pumpkin Id. Lt. Ho.

91°

3250 M.

25. A 36 ft. spot was found almost in mid-channel, to the N. of Howard Ledges Buoy,

S9,. Bearings from -

Pumpkin Id. Lt. Ho.

74°

1540 M.

~~26. A large shoal with a least depth of 26 ft. was found off Winches Mt. It is about 100 M. in diameter, an E. & W. (mag.) direction, and about 50 M. wide.~~

~~Bearing from Pumpkin Id. Lt. Ho. 147° 1300 M.~~

26.

26. A shoal with a least depth of 26 ft. was found off the Eastern entrance to Bucks Harbor. It is about 100 M. in diameter with 6 fathoms or less on it and deep water all around. Bearings from -

Pumpkin Id. Lt. Ho.

14°

2080 M.

Billings Mtn. 

296°

2230 M.

27. A shoal with a least depth of 30 ft. was found to the S.W. 'ard of this. It is about 120 M. long and 30 M. wide, with 5 to 6 fathoms on most of it.

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27(cont.). Bearing from Pumpkin Id. Lt. Ho. 8° 1480 M.

Four spots with least depths of 27 ft., 32 ft., 36 ft., and 28 ft., were found to the Southward of Thrumbeap Ledge as follows. Bearings and distances from

Pumpkin Id. Lt. Ho.

|     |        |      |         |
|-----|--------|------|---------|
| 28. | 27 ft. | 294° | 1310 M. |
| 29. | 32 "   | 275° | 1460 M. |
| 30. | 36 "   | 260° | 1160 M. |
| 31. | 28 "   | 246° | 1260 M. |

32. A shoal with a least depth of 15 ft. was <sup>also</sup> found in this vicinity. To the 6 fathom


it is about 220 M. long and 50 M. wide. Bearings from -

|   |      |         |
|---|------|---------|
| Pumpkin Id. Lt. Ho.   | 280° | 1510 M. |
| Spectacle Id.  | 93°  | 1640 M. |


33 ft. was found at the Red Buoy, S14, on Spectacle Id. Ledge.

IN UPPER EAST PEMBERSOOT BAY, the following shoals were found:

OFF CAPE ROSIER:

33. A 19 ft spot, 110 M. off the shore, about 350 M. N. of the W. point of the Cape.  
Bearing from Redman Hill  235° 1000 M.

34. A large shoal with a least depth of 17 ft. was found lying about 200 M. offshore and to the Eastward of 33. It consists of two parts:

34. One has a 17 ft ridge about 80 M. long, running almost N. & S. (mag.). Bearings from -  
Redman Hill  180° 780 M.  
S.W. Pt. Cape Rosier 116° 1250 M.

26 ft. was found 80 M. N.W. (mag.), of the N. end of this ridge, and 36 ft. N.W.W. (mag.) of the S. end.

35. The other part has a least depth of 24 ft. at its Northern end, and runs S.E. x S.

from this for about 100 M., to a depth of 33 ft. Bearings to the 24 ft. spot, from

|   |      |         |
|---|------|---------|
| Redman Hill  | 172° | 880 M.  |
| S.W. Pt. Cape Rosier  | 117° | 1450 M. |

The whole shoal is about 400 M. long in a N.W. & S.E. (mag.), direction, and is

36. about 150 M. wide, with less than 6 fathoms over most of it.

36. A large shoal with a least depth of 15 ft. was found still further toward the East. It is about 150 M. long in a N.E. x E. & S.W. x W. (mag.), direction, and is about 100 M. wide, with 15 to 18 ft. over most of it. Bearings from -

|   |      |         |
|---|------|---------|
| Redman Hill    | 140° | 1180 M. |
| Spectacle Id.  | 266° | 1680 M. |

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37. Near Two Bush Id. two shoal spots were found as follows. Bearings from center of Two Bush Id.

|     |        |     |        |
|-----|--------|-----|--------|
| (a) | 11 ft. | 14° | 100 M. |
| (b) | 54 "   | 29° | 170 M. |

38. South of Pickering Id. a shoal with a least depth of 32 ft. was found. It is about 150 M. long in a N.W. & S.E. (mag.) direction, and about 50 M. wide, with less than 6 fathoms over most of it. Bearings from -

|                   |      |         |
|-------------------|------|---------|
| Eagle Id. Lt. Ho. | 4°   | 4650 M. |
| S. tip Hog Id.    | 132° | 3350 M. |

39. Just South of Hog Id. a shoal with a least depth of 24 ft. was found. It is about 30 M. long in a N. & S. direction with less than 5 fathoms on it.

|                              |      |        |
|------------------------------|------|--------|
| Bearings from S. tip Hog Id. | 217° | 130 M. |
|------------------------------|------|--------|

40. A large shoal with a least depth of 35 ft. was found about half way from Western Id. to Beech Id. It is about 150 M. in a N. & S. (mag.) direction, and is about 100 M. wide. Bearings from -

|   |      |         |
|---|------|---------|
| Spruce Head  | 357° | 4500 M. |
| S. tip Hog Id.  | 268° | 2550 M. |

Three Shoals were found to the Westward of Western Id., as follows.

41. A least depth of 28 ft. was found on a shoal 180 meters in a north and south direction: It is about 130 meters wide and has less than 6 fathoms over most of

it. Bearings from-

|   |      |         |
|---|------|---------|
| Redman Hill  | 215° | 2950 M. |
| S. tip Hog Id.  | 274° | 3300 M. |

42. A least depth of 23 ft. was found on a shoal 130 M. in a NW & SE. direction

with less than 6 fms. over it. Bearings from-

|   |      |         |
|---|------|---------|
| Redman Hill  | 207° | 3100 M. |
| S. tip Hog Id.  | 270° | 3000 M. |

43. A least depth of 23 ft. was found on a shoal 170 M. long in an E. & W. direction:

it is 70 M. wide, has less than 6 fms. Bearings -

|   |      |         |
|---|------|---------|
| Redman Hill  | 206° | 2620 M. |
| S. tip Hog Id.  | 299° | 2950 M. |

44. Two points on the three fm. curve N. of Western Id. were located, these are just outside of two rocks to be mentioned later. Bearings from -

## Department of Commerce and Labor

44.(cont.)

Pond Id. (C)

|                         |      |               |
|-------------------------|------|---------------|
| (a)                     | 273° | -0180 1080 M. |
| (b)                     | 274° | 990 M.        |
| N.E. tip of Western Id. |      |               |
| (a)                     | 312° | 280 M.        |
| (b)                     | 335° | 190 M.        |

## BARE ROCKS AND LEDGES FOUND.

45. The back ledges charted to the Southward of Pond Id. with depths of 5 and 9 ft. respectively were found to be dry ledges from 4 to 6 ft. above high water mark. They appear on the sheet, their sizes and shapes having been determined by sextant cuts. The Westernmost ledge is 70 M. by 10 M. and stands 4' above high water mark at the center. The central ledge is about 80 M. by 70 M., has two points above high water mark the Southern one standing 6' above H.W. mark and the Northern one 5'. The most Easterly ledge is about 100 M. by 50 M. and stands 4' above H.W. mark at its Western end. A small rock 2 1/2 ft. above M.L.W. lies just to the E. of this.
46. Greene Ledge, to the W. of Western Id. was found to extend N.E. (Mag.) with from the charted ledge for about 150 M. At its Northern end is a boulder standing 8' above M.L.W., between this and the main ledge there is from 4 to 6 ft. of water at M.L.W.
47. Between Western Id. and Greene Ledge is another ledge about 35 M. by 20 M. a section of it about 40' by 20' is above H.W. mark. Another small rock, bare at H.W. lies 50 M. ENE, (Mag.) of this one.
48. Two rocks, one 1 1/2 ft. above M.L.W., the other 2 1/2 ft. above M.L.W. were located to the Northward of Western Id. and are noted on the sheet. They lie about 50 M. SW. and 30 M. SSE of the three fm. spots noted under (44).

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## PLANE TABLE WORK.

Plane table work was done to locate numerous signals throughout the Reach and up the Bay, some 12 new ones being located and the positions of as many more old ones being checked. Several triangulation stations were also recovered.

A sextant cut was also used to locate the shore line on Western Id. just W. of the signal West<sub>2</sub>. This shows that a point makes off to the Westward, this change noted on the sheet.

NAVER.

H. H. Reek, 1910.

Eggsboggin Beach, and  
East For Sheet Bay.

PLANE TABLE POSITIONS.

| Object, and description.  | Lat.   | D.M. | Long.  | D.P. | Remarks.   |
|---|--------|------|--------|------|--|
| Barn, Hog Id.- S.E. Gable<br>( <b>"HOG"</b> )                   | 44°17' | 91   | 68°47' | 648  | Gable nearest the shed;<br>the largest barn - to<br>the westward of house. |
| Pole, Hog Id.<br>( <b>"POLE"</b> )                              | 44°17' | 46   | 68°47' | 561  | Bottom.  |
| Wharf House, Condon's Pt.<br>( <b>"WHARF"</b> )                 | 44°18' |      | 68°47' |      | Peak of Southern Gable.  |
| Vitmore's Cottage, Eggsboggin<br>( <b>"VIT"</b> )               | 44°18' | 954  | 68°44' | 32   | Peak of Northern Gable.  |
| Derrick, Duck's Harbor.<br>( <b>"DERR"</b> )                    | 44°20' | 1302 | 68°43' | 1293 | Top of the most prominent<br>derrick.                                      |
| Easternmost Cottage, Horns-<br>boga. ( <b>"HORN"</b> )          | 44°19' | 350  | 68°43' | 566  | Peak, Southern Gable.  |
| Cupola, white barn near<br>Herriek's Ldg. ( <b>"CUP"</b> )      | 44°18' | 1739 | 68°42' | 525  | Ball at top of cupola.   |
| Cottage, Stave Id.<br>( <b>"STAVE"</b> )                        | 44°17' | 332  | 68°41' | 143  | Peak, Northern Gable.  |
| Boulder, Cape Garter.<br>( <b>"WHITE"</b> )                     | 44°16' | 1162 | 68°37' | 212  | Large white boulder near<br>water line. The middle.                        |
| Wharf House, above Gray's<br>Cove; Deer Isle. ( <b>"DEER"</b> ) | 44°14' | 395  | 68°45' | 648  | Peak, Outermost Gable.   |

Book of 1909 + 1910

Hyd Sheet No 2825

Feb 26, 1910.  
Dec 18, 1911

The soundings on this sheet have been verified  
and found correct.

The records were kept in a satisfactory manner

H. L. Simmons



TUGENOCOTNAHMAH

An examination was made to determine whether the yacht ATREUS struck a rock in area previously examined with the ship's drag. It was found that no shoals of such depth existed except those charted on which less water was found as reported and published in the Weekly Notice to Mariners.

The wire drag work was extended so as to include area not before examined.



# 2825

U. S. C. & G. SURVEY,  
LIBRARY AND ARCHIVES,  
OCT 18 1906  
Acc. No. 2825

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

*O. F. Tammann*  
Superintendent.

State: *Maine*

DESCRIPTIVE REPORT.

*H. H. S.* Sheet No. *2825*

LOCALITY:

*Eggemoggin Reach and  
part of East Penobscot Bay  
Wire Drag work.*

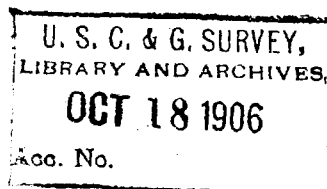
1906

CHIEF OF PARTY:

*N. H. Heck*

# 2825

Department of Commerce and Labor  
Descriptive Report.  
Projection no. 4  
Wire Drag Party.



The area covered by this sheet consists of East Plover Bay and Eggemoggin Reach, from a line connecting Cape Rozier, Great Spruce Head, and Latham's Pt. to Devil's Head, Aug. D. The work consisted in examination with wire drag to effective depth of 36 ft. at M. L. W. of all area outside of 8 fm. curve and certain portions in important channels, between the 6 fm. and 8 fm. curves. The work on this sheet resulted in finding the following shoals, the positions of which were reported to Capt. P. E. Welber of Ste. Roche for further development, in accordance with letter from Superintendent dated Aug. 27, 1906. All bearings are true.

1. a shoal 1 mile NEXN from O House. Least depth found 34 ft. Chart shows 10 fms. Pinnacle rocks.
2.  $3\frac{1}{8}$  mile north of O Drivon. Least depth 34 ft. Chart shows  $7\frac{1}{4}$  fms. Extension of shoal water outside of limits shown on chart.
3. a shoal midway between Great Spruce Head S. and Devil D. 0.6 mile south of O Beach. Less than 36 ft. Pinnacle rocks, small.
4. One <sup>half</sup> mile south by east from O West. Least depth found 33 ft. Chart shows  $7-8\frac{1}{4}$  fms. Several pinnacle rocks.
5. a group of shoals in entrance to Eggemoggin Reach. 1-0.6 mile west, 1-0.6 mile WxN, 1-0.8 mile WNW, from Purplekin Id. L. H. a number of pinnacles at each. Depth 30-38 ft. Chart shows 10-11 fms.
6. a shoal 0.9 mile north of O Punk.  $6\frac{1}{2}$  fms. or less. Chart shows  $8\frac{1}{2}-9\frac{1}{2}$  fms. Several pinnacles.
7. a shoal  $\frac{1}{2}$  mile NE of O Spec. Extension of shoal further to southward than charted.
8. a shoal. 0.4 mile SW of O Gray. Outside of 8 fm. curve but within limits of work of Ste. Explorer, and probably found by her.
9. a shoal 0.6 mile SW of O Bridge. Numerous pinnacles, a boulder. Chart shows 7 fms. Depth 32-34.
10. 0.6 mile SSW of O Bridge. Either a boulder or wreck. Drag struck at 36 ft. M. L. W. Nothing but charted depth soft bottom found with lead line. Wire caught 2 brule.
11.  $\frac{1}{2}$  mile North of O Bold, and  $\frac{1}{4}$  mile NE of O Bold, apparently a slight extension of shoal water outside of charted limits.
12.  $\frac{1}{4}$  mile WxN from O Deer. Several pinnacles all less than 6 fms. Chart shows  $7\frac{1}{4}$  fms.
13.  $\frac{1}{2}$  mile south of O Bob. a number of boulders or pinnacles all less than 36 ft. Drag struck in this shoal three different times.

The sheet shows position of wharves at Eggemoggin, and Blake's Pt., not shown on chart.

The results of this survey indicates that the best channel for deep draft vessels entering from westward

is to the northward of West, Pond, and Stuy Ids, to Two Bush  
Edge Channel Buoy. When midway between this buoy and Birch  
Id., change course so as to leave Black Buoys Nos. 17 and 15,  
close to. Hold course  $\frac{1}{4}$  mile after leaving buoy no. 15, then  
hold ENE by course till to northward of mid. channel. The  
best water is to northward of mid. channel. The chart can be  
safely followed except at the following places. Between Sargent-  
ville and North Deer Isle, the channel is very narrow, and  
without further buoys would be impracticable for a deep draft  
ship. A good berth should be given to Red Buoy no. 6 off  
Bridges Pt. To the southward of Balsam's Id. care should  
be taken to keep to southward of  $7\frac{1}{4}$  fms sounding shown on chart.  
Except at these points the chart can be safely followed, as no  
other dangers to navigation exist,

N. H. Hech, Lieut. U. S. N.  
Chief of Party.